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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/779,789
Filing Date	02/07/2001
First Named Inventor	Behrooz REZVANI
Group Art Unit	2637
Examiner Name	AHN, SAM K
Total Number of Pages in This Submission	
Attorney Docket Number	VELCP008X1C

ENCLOSURES   *(check all that apply)*

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment / Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Response to Missing Parts/ Incomplete Application
  - [ ] Response to Missing Parts under 37 CFR 1.52 or 1.53

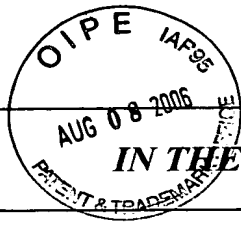- [ ] Assignment Papers # *(for an Application)*
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition #
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [x] Return Receipt Postcard

- [ ] After Allowance Communication to Group
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) *(please identify below):*
  1- Request for Certificate of Correction of Patent 6,985,521
  2-PTO/SB/44

Remarks

Certificate AUG 1 0 2006 of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	IP Creators
Signature	Charles C. Cary Reg. #: 36,764
Date	August 4, 2006

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 on this date: | August 4, 2006 |

Typed or printed name	Charles C. Cary		
Signature		Date	August 4, 2006

AUG 1 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: REZVANI et al.	Attorney Docket No.: VELCP008X1C
Application No.: 09/779,789	Patent No.: US 6,985,521 B1
Filed: 02/07/2001	Date of Patent: Jan 10, 2006
Title: METHOD AND APPARATUS FOR CHANNEL ESTIMATION FOR X-DSL COMMUNICATIONS	Examiner: AHN, SAM K. Group: 2637

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Attention Certificate of Corrections Branch, Commissioner for Patents, Alexandria, Virginia 22313-1450.

Date: <u>August 4, 2006</u>　　　　　　Signed: _____

Charles C Cary

REQUEST FOR CERTIFICATE OF CORRECTION

Attention Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

This communication is a request for Certificate of Correction for the above subject Patent No. 6,985,521. There are errors made by the Office in Claim 2, specifically the Office has substituted the Abstract into Claim 2 rather than the body of amended Claim 8 (renumbered Claim 2) as presented by the Applicant on August 15 2005 in a Petition for Amendment After Final which petition was accepted by the Examiner.

Certificate of Correction is requested to include the corrections in the following and indicated on PTO/SB/44 Form:

Amendment after Final filed on August 15, 2005 and specifically:

Page 3 lines 10-22 and Page 4 lines 1-6 encompassing the body of Amended Claim 8 which reads as follows:

Claim 8 (currently amended)　~~The~~ An apparatus ~~of Claim 1, wherein the detector further comprises:~~ for channel estimation in a communication device having a transmit path and a receive path both coupled to a communication medium, and the apparatus comprising:

a pseudo-random noise generator　(PRN) coupled to the transmit path to inject a codeword into the transmit path;

a correlator coupled to the receive path to generate an ordered set of correlation coefficients corresponding with successive phasings of the codeword with respect to a received signal, and the correlator including:

- *a detector to detect peaks within the ordered set of correlation coefficients including both a peak corresponding with a leakage signal together with at least one other peak corresponding to a reflection of the injected codeword by the communication medium, and the detector determining at least one of the offset between peaks or a relative magnitude of the peaks, thereby estimating the channel characteristics across the communication medium- and the detector including:*

  - *a peak detector for detecting peaks within the ordered set of correlation coefficients;*

  - *a leakage peak detector for determining which among the peaks detected by said peak detector corresponds with the leakage peak; and*

  - *a sequencer for sequentially ordering the peaks corresponding with a time of receipt of each of the reflected signals with respect to the peak corresponding with the time of receipt of the leakage signal to estimate channel characteristics for the communication medium.*

Should there be any fee due in connection with the filing of this request, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-1338 (Order No. **VELCP008X1C**).

Thank you for your assistance in this matter. Do not hesitate to contact the undersigned as indicated below should you have any questions regarding this matter.

Respectfully submitted,

Date: August 4, 2006   Signed: _____

Charles C. Cary

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AUG 11 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : US 6,985,521

DATED : Jan 10, 2006

INVENTOR(S) : Behrooz Rezvani; Sam Heidari; and Dale Smith

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 14, lines 41-58 should be deleted and the following inserted:

-- 2. An apparatus for channel estimation in a communication device having a transmit path and a receive path both coupled to a communication medium, and the apparatus comprising;
a pseudo-random noise generator (PRN) coupled to the transmit path to inject a codeword into the transmit path;
     a correlator coupled to the receive path to generate an ordered set of correlation coefficients corresponding with successive phasings of the codeword with respect to a received signal, and the correlator including:
     a detector to detect peaks within the ordered set of correlation coefficients including both a peak corresponding with a leakage signal together with at least one other peak corresponding to a reflection of the injected codeword by the communication medium, and the detector determining at least one of the offset between peaks or a relative magnitude of the peaks, thereby estimating the channel characteristics across the communication medium. and the detector including:
          a peak detector for detecting peaks within the ordered set of correlation coefficients;
          a leakage peak detector for determining which among the peaks detected by said peak detector corresponds with the leakage peak; and
          a sequencer for sequentially ordering the peaks corresponding with a time of receipt of each of the reflected signals with respect to the peak corresponding with the time of receipt of the leakage signal to estimate channel characteristics for the communication medium. --

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PATENT NO. 6,985,521

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